



## XTRA™ Series Half-Rack Audio Power Amplifiers • Setup Guide

(XPA 1002, XPA 1002 Plus, XPA 1002-70V, XPA 1002-100V, XPA 2001-70V, XPA 2001-100V)

**WARNING:** Installation and service must be performed by experienced personnel only.

**AVERTISSEMENT :** L'installation et l'entretien doivent être effectués par le personnel autorisé uniquement.

This guide provides startup instructions for an experienced installer to set up and operate the XPA 1002 or XPA 2001 series audio power amplifiers. All references are to the XTRA Series Half-Rack user guide which can be found on [www.extron.com](http://www.extron.com).

### Step 1 – Powering Down Equipment

Be sure that power to the amplifier is turned off first.

**NOTE:** Adjust the audio level to  $\infty$  (full attenuation) prior to powering the amplifier in step 7.

Turn off all other equipment and disconnect the power cables. Verify that the amplifier is disconnected from the power source before proceeding.

### Step 2 – Mounting and Applications

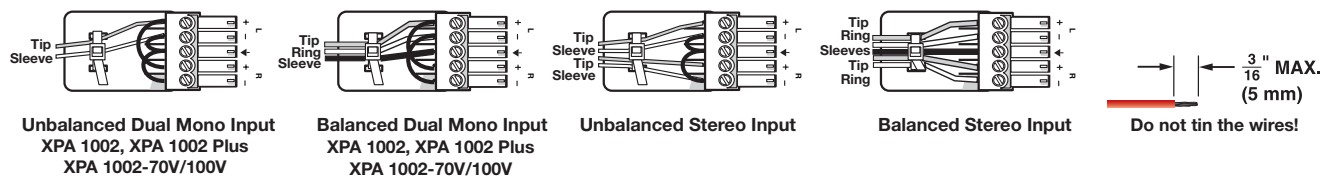
For diagrams of typical application examples, see *Application Examples* in the user guide. For further mounting instructions, see *Mounting the XTRA Series Amplifier* in the user guide.

### Step 3 – Captive Screw Audio Cable Wiring

**NOTE:** Control signal ground pins may be labeled as  $\frac{+}{-}$ ,  $\nabla$ , or “G”. Audio ground pins may be labeled as  $\frac{+}{-}$  or  $\nabla$ . The wiring and function are the same, whichever way your product is labeled.

Wire the source output to the amplifier input 3.5 mm captive screw connectors as shown in the following illustration.

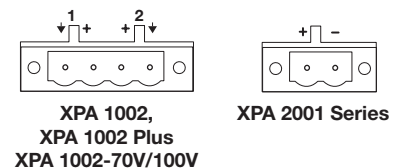
**NOTE:** The output power of the XPA 1002 and XPA 1002 Plus can be effectively doubled by using only one source channel and bridging the output. The XPA 1002 and XPA 1002 Plus output 200 watts @ 8 ohms in bridged mode (see *Bridged Mono Output* in the user guide for wiring instructions when bridging the XPA 1002 or XPA 1002 Plus).



**NOTE:** For mono input on the XPA 1002-70V/100V and 2001-70V/100V models, only the left channel needs to be wired; no jumpering to the right channel is needed. The left and right inputs of these models are summed internally to mono.

### Step 4 – Speaker Wiring

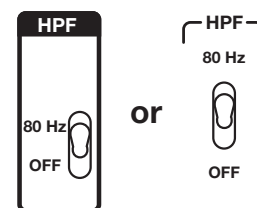
Wire the speakers to the output connector of the amplifier using the included 4 pole (XPA 1002, XPA 1002 Plus, XPA 1002-70V/100V) or 2 pole (XPA 2001-70V/100V) captive screw connector as shown to the right.



## Step 5 – Setting the High Pass Filter (HPF)

On XPA 1002-70V/100V and XPA 2001-70V/100V models, use a Tweezer to toggle the high pass filter switch between off (no filtering) and 80 Hz (default). Setting the switch to 80 Hz prevents the saturation of speaker input transformers by low frequency signals.

**NOTE:** The high pass filter switch may be labeled one of two ways (see the images to the right). The function is the same, whichever way your product is labeled.

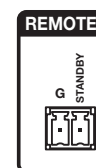
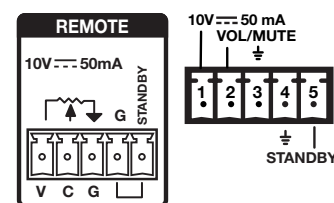


## Step 6 – Control Wiring

On the XPA 1002, XPA 1002 Plus, XPA 2001-70V, and the XPA 2001-100V models, the 3.5 mm 5-pin captive screw remote control port (shown to the right) is used to control volume and standby mode through contact closure. Standby mode turns off all output, although the XPA is still receiving power. For detailed wiring instructions, see the user guide.

### NOTES:

- Set the volume control on the connected control device to maximum and ensure that the amplifier is not forced into standby mode via the standby pin.
- The remote control port may be labeled one of two ways (see images to the right). The wiring and function are the same, whichever way your product is labeled.



On the XPA 1002-70V and XPA 1002-100V models, the 3.5 mm 2-pin captive screw remote control port (shown to the right) controls the standby mode only.

## Step 7 – Powering On Equipment

**ATTENTION:** The amplifier must be powered on last.

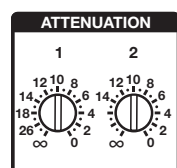
**ATTENTION :** L'amplificateur doit être mis sous tension en dernier.

Reconnect all power cables and switch on all other equipment before powering on the power amplifier. The front panel power LED of the amplifier lights green.

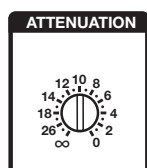
## Step 8 – Adjusting Attenuation

Adjust the audio attenuation using the rear panel adjustment potentiometers as shown below (see *Rear Panel Features and Operation* in the user guide for more information).

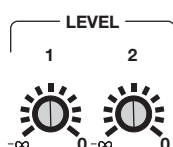
**NOTE:** On some models, this adjustment is referred to as “level”. The function is the same, whichever way your product is labeled.



XPA 1002 Series



XPA 2001 Series



XPA 1002



XPA 2001 Series

## Step 9 – Checking the LEDs

Check the limiter/protect and signal LEDs located on the front and rear panels if problems are encountered (see *Rear Panel Features and Operation* in the user guide for more information).

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